Title: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT

**QUERIES** 

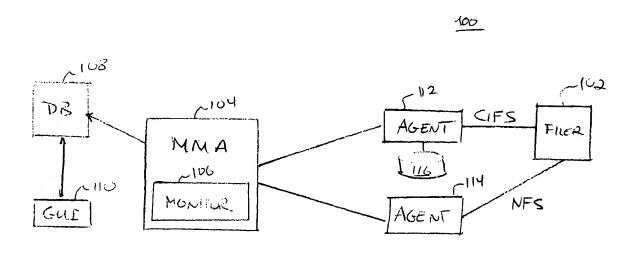
1st Named Inventor: Vijay Deshmukh Express Mail No.: EV409365123US

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Docket No.: 5693P048

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Title: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT

**QUERIES** 

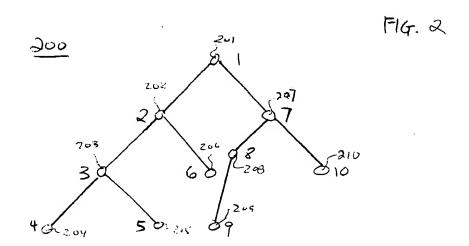
1st Named Inventor: Vijay Deshmukh Express Mail No.: EV409365123US

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3 <u>w</u>	~302	~304
	NODE	PARENT
	1	0
	2	1
	7	1
	3	2
•	6	Z
	8	7
	10	7
	4	3
	5	3

FIG. 3

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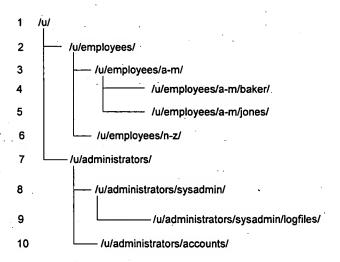
FIG. 3B

<u>300</u>

~3	02 ~30Y	r ~35	52 NS54	~35i
NODE	PARENT	SIZE	CREATION	NAME
	•		TIME	
1	0	4.1 GB	3/1/2003	/u/
			12:00a	¥:
2	1.	812 MB	3/1/2003	/u/employees/
		-	1:00a	*
7	1	1.2 GB	3/1/2003	/u/administrators/
		,	1:02a	
3	2	704 MB	3/14/2003	/u/employees/a-m/
			2:14p	
	·			
				i
	i ,		İ	·

FIG. 3C

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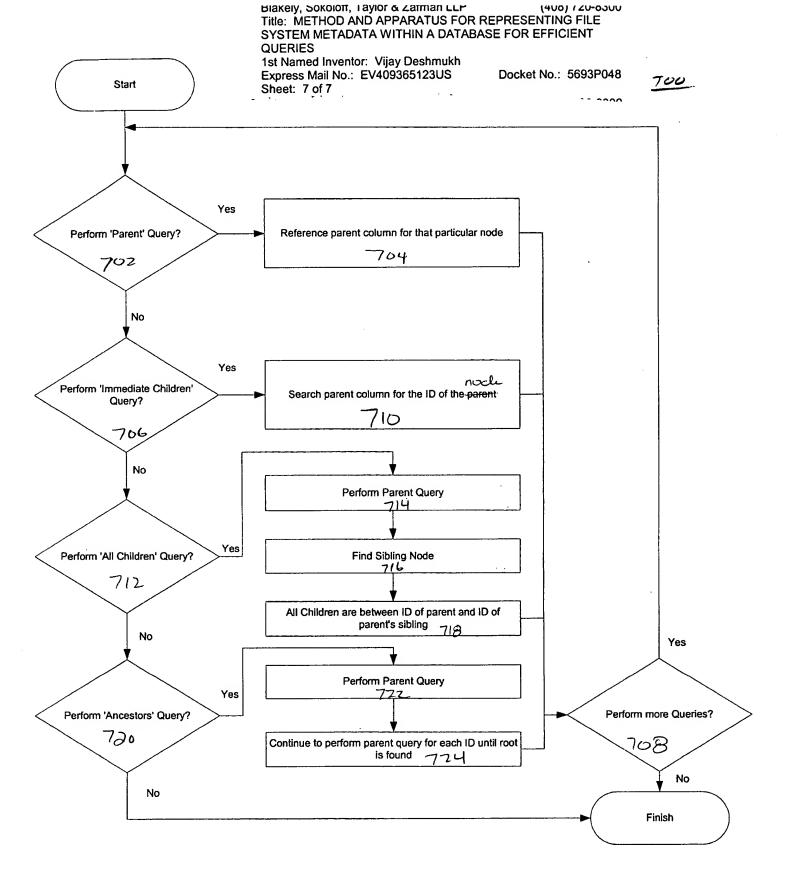
DIAKELY, SOKOIOII, LAYIOI & ZAIIIIAII LLF Title: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT **QUERIES** 1st Named Inventor: Vijay Deshmukh Express Mail No.: EV409365123US Docket No.: 5693P048 Sheet: 4 of 7 Start F14.4 Scan a storage server 402 Collect data regarding a directory structure 404 Assign IDs to directories according to a DFS order while collecting the data 406 Write a table including the ID numbers 400

End

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SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT
QUERIES
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	102	26.04	~606
FIG. 6A	Directory Queue root	File Queue	Tree 600
FIG. 6B	M60Z Directory Queue	File Queue	Tree 600
	~602	system.file	. 60b
FIG. 6C	Directory Queue /u/	File Queue	Tree (0) 600
FIG. 6D	2602 Directory Queue	File Queue /employees/ /administrators/ users.cfg	Tree 600 0 Root (0)
FIG. 6E	Directory Queue /employees/ /administrators/	File Queue	Tree 600 O Knot (0) O /M/ (1)
FIG. 6F	Directory Queue /administrators/	File Queue /a-m/ /n-z/ list.cfg	Tree 600 600 9 /ul (1)
FIG. 6G	Directory Queue /a-m/ /n-z/	File Queue	3 /employees/(2) 606 VTree 9 Rout (v)
FIG. 6H	/administrators/ O2 Directory Queue /n-z/ /administrators/	File Queue 6 <sup>c</sup> /baker/ /jones/ index.cfg	0 /u/ (1)  1/employers /(2)  1/2  1/2  1/2  1/2  1/2  1/2  1/2  1
		C	(b /employees) (2) 1a-m/ (3)



F14.7